



BATHS: WATER AND OIL, DRY BLOCKS AND ULTRASONIC

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*"The entrepreneur always searches for change, responds to it, and exploits it as an opportunity."
Peter Drucker*



Water bath "Aquaterm"

ADJUSTABLE TEMPERATURE FROM 30 °C TO 110 °C. STABILITY ± 2 °C.

Economic option

FEATURES

AISI 304 stainless steel tank with epoxy coated base.
Heater element embedded in high temperature, corrosive resistant INCOLOY.

CONTROL PANEL

Temperature regulator thermostat switch, synchronised with an indicator lamp.

MODEL

Part No.	Capacity litres	Ø (usable) cm	Height cm	Ø (exterior) cm	Height cm	Power W	Weight Kg
3000916	1.5	20	11.5	22	20.5	640	1.3



ACCESSORIES IN AISI 304. STAINLESS STEEL

Perforated shelf.

Part No. **6000998**

Flat Lid with 5 concentric ring set.

Part No. **3000917**



Boiling bath "Baher"

ADJUSTABLE TEMPERATURE FROM 30 °C TO 110 °C. STABILITY ± 3 °C.

FEATURES

Rapid boiling (6-7 minutes).
AISI 304 stainless steel tank and epoxy coated base.
Heater element embedded in INCOLOY stainless steel.

CONTROL PANEL

Temperature regulator thermostat switch, synchronised with an indicator lamp.

MODEL

Part No.	Capacity litres	Ø (usable) cm	Height cm	Ø (exterior) cm	Height cm	Power W	Weight Kg
7000540	1	14	11	15	19	640	1



ACCESSORIES MADE OF STAINLESS STEEL

Lid with bakelite handle.

Part No. **7000572**

Rack 24 haemolysis tubes up to 13 mm diameter.

Part No. **7004002**

Rack for 24 tubes up to 18 mm diameter.

Part No. **7000541**

Perforated shelf.

Part No. **6001194**



Water and oil baths "Univeba"

WATER BATH: ADJUSTABLE TEMPERATURE FROM AMBIENT +5 °C TO 110 °C STABILITY ± 2 °C.

OIL BATH: ADJUSTABLE TEMPERATURE FROM AMBIENT +5 °C TO 200 °C STABILITY ± 3 °C.

SAFETY:

CONFORMS TO THE DIN STANDARD 12877.2 BY INCORPORATING A MANUALLY RESET OVER TEMPERATURE SAFETY CUT-OUT.

APPLICATIONS

To be used with a rotary evaporator or as a stand alone Bains Marie bath.

FEATURES

Tank interior and exterior case made of AISI 304 stainless steel. The heater element is embedded in a protective INCOLOY stainless steel shield.

CONTROL PANEL

Illuminated main power switch indicator lamp. Hydraulic temperature thermostat regulator synchronised with an indicator lamp. Safety thermostat cut out indicator lamp.



MODELS

Part No.	Maximum Temperature °C	Capacity litres	Ø (usable) cm	Height cm	Height / Width / Depth (exterior) cm	Power W	Weight Kg
3000400	110	2.5	18	13	19 22 27	390	4
3000401	200	2.5	18	13	19 22 27	640	4

ACCESSORIES MADE OF STAINLESS STEEL

1- Heating element cover shelf.

Part No. **6000033**

2- Reduction ring cover lid of 110, 80, 60 and 37 mm Ø. With a thermometer location hole in the lid. Part No. **7004001**

3- Tube rack for 24 haemolysis tubes up to 13 mm Ø.

Part No. **7004002**

4- Tube support rack for 24 tubes up to 18 mm Ø.

Part No. **7000541**

5- Thermometer.

Part No.

1000120 up to 120 °C.

1000200 up to 200 °C



Water and oil baths “Termobat”

ADJUSTABLE TEMPERATURE FROM AMBIENT+5 °C TO 110 °C. STABILITY ± 2 °C TO 200 °C. STABILITY ± 3 °C.

SAFETY:

CONFORMS TO THE DIN STANDARD 12877.2 BY INCORPORATING A MANUALLY RESET OVER TEMPERATURE SAFETY CUT-OUT.

APPLICATIONS

To be used with a rotary evaporator for flasks up to 10 litres or as a stand alone bains marie.

FEATURES

Tank interior made of AISI 304 stainless steel, with an epoxy coated base.

The heater element is embedded in a protective INCOLOY stainless steel shield.

CONTROL PANEL

Main power switch, with luminous indicator lamp.

A hydraulic temperature thermostat regulator is synchronised with an indicator lamp.

MODELS

Part No.	Maximum Temperature °C	Capacity litres	Ø (usable) cm	Height cm	Ø (exterior) cm	Height cm	Power W	Weight Kg
3000587	110	11	29	17	29	25	2100	5.5
3000588	200	11	29	17	29	25	2100	5.5

Large capacity



ACCESSORIES MADE OF AISI 304

STAINLESS STEEL

Reduction ring cover lid of 210, 180, 145, 115 and 80 mm Ø. With a location hole for a thermometer.

Part No. **7000589**



Heater element cover shelf.

Part No. **6000555**



Thermometer.

Part No.

1000120 up to 120 °C.

1000200 up to 200 °C.



Sand baths “Combiplac-Sand”

ADJUSTABLE PLATE TEMPERATURE UP TO 400 °C.

FEATURES

Electronic energy heater controller. The steel hotplate surface has an evenly distributed heater element providing homogeneous heat distribution.

The non warping AISI 310 stainless steel sand bath can be easily removed for cleaning.

The Hotplate can be used independently without the sand bath. The hotplate casing is made of AISI 304 stainless steel.

CONTROL PANEL

Mains power switch with luminous “On” indicator lamp.

Electronic heater power control between 0 to 100 %.

Heater operation indicator lamp.

The back of the unit is fitted for an electronic thermometer “Sensotherm” or digital electronic controller “Electemp” described under regulators and controllers (see page 286).



MODELS

Part No.	Height / Width / Depth (usable) cm			Height / Width / Depth (exterior) cm			Power W	Weight Kg
6000708	5	18	38	18	22	41	2300	13
6000709	5	30	30	21	32	35	2800	15



Circulation pump “Ciragit”

FEATURES

Metal construction, with all components in contact with liquid made of AISI 304 stainless steel.

The unit can be adjusted to fit most tanks or baths, can be submerged and held in position by an adjustable height support clamp.

Pump circulation with adjustable flow rates allowing external circulation of liquids.

ON/ OFF illuminated power switch with light when on.

Interchangeable flow output connector:

- position A: Internal tank circulation.
- position B: External circulation.

SPECIFICATIONS

OUTPUT water:

20 °C , 12 l/ min.- 150 mbar

OUTPUT silicon oil:

50 °C 4 l/min.- 130 mbar

Dimensions:

9.5 x 12.5 x 23 cm

Power: 30 W

Weight: 2.5 Kg.

Part No. **3000402**





Water and oil baths “Precistern”

ADJUSTABLE TEMPERATURE RANGE FROM AMBIENT +5 °C UP TO 110 °C, STABILITY ± 1 °C.

ADJUSTABLE TEMPERATURE RANGE FROM AMBIENT +5 °C UP TO 200 °C, STABILITY ± 2 °C.

Extensive range of sizes and accessories

Stainless steel interior and external case



FEATURES

Capacity; from 2 litres up to 45 litres.

Double skinned tank of AISI 310 stainless steel with an exterior case of AISI 304 stainless steel.

Heating elements embedded in INCOLOY heat and corrosion resistant stainless steel.

CONTROL PANEL

Illuminated mains power switch.

Hydraulic thermostat temperature control, synchronised with the “ON” indicator lamp.

Safety thermostat cut out indicator lamp.

MODELS

Part No.	Maximum Temperature °C	Capacity litres	Height / Widht / Fondo (usable) cm			Height / Widht / Depth (exterior) cm			Power W	Weight Kg
6000137	110	2	15	15	13	20	20	27	390	3.5
6000385	200	2	15	15	13	20	20	27	640	3.5
6000138	110	5	15	30	14	20	37	27	600	6
6000386	200	5	15	30	14	20	37	27	1110	6
6000140	110	12	15	30	30	20	40	42	1100	8
6000387	200	12	15	30	30	20	40	42	1400	8
6000141	110	20	15	48	30	20	58	42	1500	10
6000388	200	20	15	48	30	20	58	42	2100	10
6000142*	110	45	15	62	50	22	69	62	2400	18
6000389*	200	45	15	62	50	22	69	62	3800	18

All water baths are supplied with heating elements protection shelf.

* With built in drain tap.

SAFETY:

DIN 12877.2 STANDARD.

THE UNIT WILL CUT OUT IF THERE IS INSUFFICIENT LIQUID OR IF THE BATH TEMPERATURE EXCEEDS THE SET TEMPERATURE.

A MANUAL RESET ADJUSTABLE TEMPERATURE SAFETY THERMOSTAT IS PLACED AT THE BACK OF THE UNIT.



ACCESSORIES. See page 83.



Water baths “Precisdig” with or without anti-evaporation folding lid

DIGITAL CONTROL AND DISPLAY OF TEMPERATURE AND TIME.

ADJUSTABLE TEMPERATURE RANGE FROM AMBIENT+5 °C TO 99.9 °C, STABILITY ± 0.1 °C, HOMOGENEITY ± 1 °C.

ADJUSTABLE TEMPERATURE RANGE FROM AMBIENT+5 °C TO 200 °C, STABILITY ± 0.5 °C, HOMOGENEITY ± 2.5 °C.

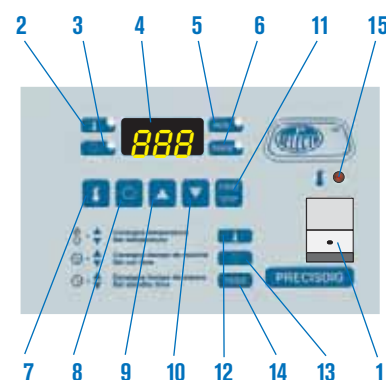
SAFETY: DIN 12877.2 STANDARD. THE UNIT WILL CUT OUT IF THERE IS INSUFFICIENT LIQUID OR IF THE BATH TEMPERATURE EXCEEDS THE SET TEMPERATURE. A MANUAL RESET ADJUSTABLE TEMPERATURE SAFETY THERMOSTAT IS PLACED AT THE BACK OF THE UNIT.

Programmable temperature and time. Interior and exterior made from Stainless steel



FEATURES

Double skinned tank of AISI 310 stainless steel with an external case of AISI 304 stainless steel. Heating elements embedded in INCOLOY heat and corrosion resistant stainless steel. Comes complete with drain tap.



CONTROL PANEL

1. Illuminated mains switch.
2. Temperature mode indicator.
3. Time mode indicator.
4. Temperature and time indicator.
5. Start time indicator.
6. Waiting / delay time indicator.
7. Temperature set button.
8. Time set button.
9. Increase, push button.
10. Decrease, push button.
11. Stop and start time.
12. Read Temperature.
13. Set start up time: from 1 min. to 9 hours 59 min, or up to 99.9 hours once the set temperature has been reached.
14. Set waiting / delay time: from 1 to 24 hours.
15. Safety thermostat indicator lamp.

MODELS

Part No.	Temperature maximum °C	Capacity litres	Height / Width / Depth (usable) cm	Height / Width / Depth (exterior) cm	Power W	Weight Kg
6001195	99,9	5	15 30 14	20 37 27	600	6
6001236	200	5	15 30 14	20 37 27	1100	6
6001196	99,9	12	15 30 30	20 40 42	1100	8
6001237	200	12	15 30 30	20 40 42	1400	8
6001197	99,9	20	15 48 30	20 58 42	1500	10
6001238	200	20	15 48 30	20 58 42	2100	10
6001198	99,9	45	15 62 50	20 69 62	2400	18
6001239	200	45	15 62 50	20 69 62	3800	18

All baths with heating shelf and drainage. Faucet included.

MODELS WITH MAKROLON® FOLDING LID

Part No.	Temperature maximum °C	Capacity litres	Height / Width / Depth (usable) cm	Height / Width / Depth (exterior+lid) cm	Power W	Weight Kg
6001186	99,9	12	15 30 30	40 40 42	1100	8
6001187	99,9	20	15 48 30	40 58 42	1500	10
6001188	99,9	45	15 62 50	40 69 62	2400	18

All baths with heating shelf and drainage. Faucet included.

MAKROLON® FOLDING LID PROPERTIES

Due to its transparency, you can visualize the bath's inside. It improves temperature stability, and restricts evaporation and pollution

ACCESSORIES.

See page 83..



Water bath with inner stirring “Agibat-20” with digital control and display of temperature and time

ADJUSTABLE TEMPERATURE RANGE FROM AMBIENT +5°C UP TO 80°C. STABILITY $\pm 0.1^\circ\text{C}$.
SET TEMPERATURE ACCURACY $\pm 1^\circ\text{C}$, WORKING TEMPERATURE PRECISION 0.1°C .

NEW

P.Selecta original model. More space. More accuracy. Economical.



Stirring detail by internal circulation pump.

FEATURES

Double skinned tank, inner case made of AISI 310 stainless steel.
External case of AISI 304 steel.
Submerged heating elements in INCOLOY special alloy.
It comes complete with drain tap.

STIRRING SYSTEM

These baths have an aspiration and outflow internal circulation pump which allow a constant flow stirring.
Flow: 8 litres per minute.

CONTROL PANEL

See page 81.
Three positions switch: only heater, heater + stirring and start/stop.

MODEL WITH MAKROLON® FOLDING LID

Due to its transparency, you can visualize the bath's inside.
It improves temperature stability, and restricts evaporation and pollution.

MODELS

Part No.	Lid Makrolon®	Maximum Temp °C	Litres Capacity	Height/Width/Depth (usable) cm			Height/Width/Depth (exterior) cm			Power W	Weight Kg
6032012	Yes	80	20	15	48	30	20	58	42	2010	11
6032013	No	80	20	15	48	30	40	58	42	2010	12

All baths with heating shelf and drainage. Faucet included.

ACCESSORIES.

See page 83.

SAFETY:

DIN 12877.2 STANDARD. THE UNIT WILL CUT OUT IF THERE IS INSUFFICIENT LIQUID OR IF THE BATH TEMPERATURE EXCEEDS THE SET TEMPERATURE. A MANUAL RESET ADJUSTABLE TEMPERATURE SAFETY THERMOSTAT IS PLACED AT THE BACK OF THE UNIT.



ACCESSORIES FOR“PRECISTERM”, “PRECISDIG” AND “AGIBAT-20”

Suitable for all “PRECISTERM”, “PRECISDIG” and “AGIBAT-20” models.



Removable constant liquid level.
Part No. **6001400**
Note: Not compatible with gable and Makrolon® lid.



Fixed, constant liquid level.
Part No. **6000123**

Únicamente para baños modelo “PRECISTERM”



Thermometer support with locking screw (up to 40 mm).
Part No. **6000896**



Thermometer.
Part No.
1000120 up to 120 °C.
1000200 up to 200 °C.
1000872 up to 120 °C, extra long, suitable for Gable lid.
1000873 up to 200 °C, extra long, suitable for Gable lid.

1. Gable lid with thermometer location position hole.
2. Flat lid with concentric reduction rings of 105, 80, 60 and 37 mm Ø. With thermometer location position hole.
Note: The perforated lid avoids the lock of the Makrolon® folding lid.
3. Support frame for tube racks.
4. Tube Racks various tube diameters available.



Capacity litres	Model code AGIBAT-20	Model code PRECISTERM	Model code PRECISDIG	1 Gable lid	2 Lid with concentric reduction rings	3 Support frame
2		6000137 - 6000385		-	6003231 1 place	-
5		6000138 - 6000386 - 6001195* - 6001236*		6000710	6003232 2 places	1001199
12		6000140 - 6000387 - 6001196* - 6001237*		6000711	6003234 4 places	1001200
20	6032012*6032013*	6000141 - 6000388 - 6001197* - 6001238*		6000712*	6003236 6 places	1001201
45		6000142* - 6000389* - 6001198* - 6001239*		6000714	6001603 12 places	1001205

* Comes complete with drain tap. * Only for bath without Makrolon® lid “AGIBAT-20”.

Capacity litres	for PRECISDIG baths with Makrolon® lid	2 Lid with concentric reduction rings	3 Support frame
12	6001186	6003234 4 places	1001200
20	6001187	6003236 6 places	1001001
45	6001188	6003236 12 places	1001205

4 Tube racks (requires support frame)							
Part No.	Tube Ø mm	Number of tubes per rack	Rack Dimensions Height / Width / Depth (usable) cm			Number of racks by bath capacity litres	
						5	12 20 45
1001202	13	36	8	8.2	23.6	1	3 5 10
1001203	16	24	8	8.2	23.6	1	3 5 10
1001204	20	24	8	8.2	23.6	1	3 5 10

Stabilising rings “circum” prevents flasks from floating when placed in a water bath. Suitable for all types of flasks, erlenmeyers, etc. See page. 171.





Histology paraffin section mounting bath “Termofin”

ADJUSTABLE TEMPERATURE FROM 40 °C TO 80 °C.
STABILITY ± 1 °C.

APPLICATIONS

Suitable for the fusion and preservation of paraffin wax in a liquid state that enables the user to see the floated sections.

FEATURES

Aluminium inner tank and lid with a P.T.F.E. matt black coating. Thermometer location hole in the lid to read temperature.

CONTROL PANEL

Mains power ON/OFF switch. Hydraulic temperature thermostat regulator synchronised with an indicator lamp.

MODEL

Part No.	Capacity litres	Ø (usable) cm	Height cm	Ø (exterior) cm	Height (exterior) cm	Power W	Weight Kg
3000459	4	25	10	34	14	430	2.3

Comes complete with lid and thermometer.

P.T.F.E. coated



ACCESSORY

Thermometer support (can only be used without the lid).

Part No. **6004591**

NOTE: Wax dispenser (see page 212).



Bank of oil and water baths “Precisbat”

ADJUSTABLE TEMPERATURES FROM AMBIENT +5 °C UP TO 200 °C, STABILITY ± 2 °C.
INDEPENDENT TEMPERATURE CONTROL FOR EACH POSITION.

FEATURES

Inner vessel made of AISI 310 stainless steel with the external case made of AISI 304 stainless steel.

The heater element is embedded in stainless steel INCOLOY alloy, that is corrosion and heat resistant.

Each position has a lid with concentric reduction rings of; 105, 80, 60 and 40 mm in Ø.

An adjustable support frame is mounted at the back of the unit to facilitate the mounting and support of flasks, condensers and other apparatus, etc.

Capacity: 2 litres per position.

CONTROL PANEL

Independent control for each position.

Mains ON/OFF with luminous “ON” indicator lamp for each position.

Hydraulic thermostat temperature control synchronised with the “ON” indicator lamp.



MODELS

Part No.	Temperature maximum °C	Number of places	Height / Width / Depth (usable each position) cm			Height / Width / Depth (exterior) cm			Power W	Weight Kg
6001462	200	2	12	14	12	19	35	29	1300	5.5
6001472	200	4	12	14	12	19	67	29	2560	10
6001482	200	6	12	14	12	19	100	29	3800	15

ACCESSORIES



Perforated shelf (One per tank) made of AISI 304 stainless steel. Part No. **6000011**



Clamp for supporting flasks and condensers. Part No. **7000403**



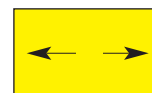
Thermometer up to 200 °C. Part No. **1000200**



Bosshead for supporting clamps. Part No. **1000069**



Precise reciprocal shaking baths controlled by microprocessor “Unitronic Reciprocating Shaking Bath” and with refrigeration “Unitronic Reciprocating Shaking Bath C”



UNITRONIC RECIPROCATING SHAKING BATH LINEAR: TEMPERATURE RANGE FROM AMBIENT +5 °C TO 99.9 °C.
UNITRONIC RECIPROCATING SHAKING BATH C LINEAR: TEMPERATURE RANGE FROM 0 °C TO 99.9 °C.
STABILITY ± 0.05 °C HOMOGENEITY ± 0.1 °C, SET TEMP. ERROR ± 1 °C, RESOLUTION 0.1 °C.

SAFETY:

CONFORMS TO THE DIN STANDARD 12879.0. SAFETY THERMOSTAT
OVER TEMPERATURE CUT OUT WITH MANUAL RESET.

Reciprocal linear agitation, controllable from 10 to 100 oscillations per minute

Controllable time from 1 minute to 99 hours 59 minutes

MICROPROCESSOR CONTROL WITH DIGITAL DISPLAY AND PUSH BUTTON TEMPERATURE, SPEED
AND TIME SELECTION. RS-232 INTERFACE FOR PRINTER OR COMPUTER OUTPUT.



APPLICATIONS

Cell culture and biological samples, yeasts and general applications that require stable and reproducible temperatures.

COMMON FEATURES

Linear motion sliding tray from 10 to 100 oscillations per minute, with a variable stroke length of 32 or 46 mm.

Digital display and selection of temperature, oscillations and time.

Temperature sensor: thermo-resistant Pt100.

Rack frame support made of AISI 304 stainless steel incorporated in the tank that can accommodate a selection of flasks and racks.

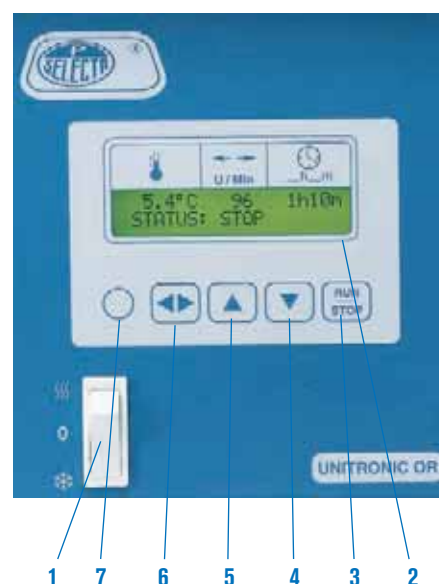
Internal tank made of AISI 310 stainless steel with an external case of AISI 304 stainless steel.

Built in drain tap.

Ventilated hermetically sealed compressor for refrigeration in the “Unitronic - C”.

CONTROL PANEL

1. Mains power switch.
2. LCD screen that shows:
 - Temperature, oscillations per minute and time.
 - Alarms: set temperature and probe failure.
 - Configuration: °C or °F, temperature calibration and set working temperature limits.
3. Push button Start/ Stop.
4. Push button to decrease value.
5. Push button to increase value.
6. Push button for parameter selection: temperature, strokes per min. and time.
7. Push button for configuration.



“Unitronic Reciprocating Shaking Bath”

“Unitronic Reciprocating Shaking Bath C” Refrigerated Bath



MODELS

	Part No.	Capacity litres	Height / Width / Depth (bath) cm	Height / Width / Depth (support carriage) cm	Height / Width / Depth (exterior) cm	Power W	Weight Kg
UNITRONIC RECIPROCATING	6032011	27	18 48 29	17 35 24	30 74 40.5	1500	25
UNITRONIC RECIPROCATING-C	6001173	27	18 48 29	17 35 24	30 74 63.5	1750	43

ACCESSORIES FOR UNITRONIC RECIPROCATING SERIES



Support Platform for Erlenmeyer flasks.

Made of AISI 304 stainless steel with location holes for various configurations of Erlenmeyer flask clip supports.
Sizes: 50, 100, 250, 500 and 1000 ml.

Part No.	Width / Depth (platform) cm	No. of flasks and capacity per platform					Weight Kg
		50 ml	100 ml	250 ml	500 ml	1000 ml	
3001004	23.5 34.5	20	12	6	6	3	1



Racks: made of AISI 304 stainless steel.
Capacity: 2 racks.

Part No.	Tube Ø mm	No tubes per rack	Height / Width / Depth (rack) cm		
1001233	13	70	8.5	11	34
1001234	16	48	8.5	11	34
1001235	20	48	8.5	11	34



Adapter clips for Erlenmeyer flasks.

Made of tempered stainless steel.

Part No.

1001003	Adapter for	50 ml.
1000978	Adapter for	100 ml
1000979	Adapter for	250 ml.
1000980	Adapter for	500 ml.
1000981	Adapter for	1000 ml.



Gable Lid: made of AISI 304 stainless steel.

Part No. **6000713**



Precision Viscometer Bath "VB-1423"

DIGITAL TEMPERATURE CONTROL FROM AMBIENT +5 °C TO 100 °C.
STABILITY ±0.05 °C. HOMOGENEITY ±0.05 °C. SET ERROR VALUE ±0.09 °C.
RESOLUTION 0.1 °C.

SAFETY:

SAFETY THERMOSTAT CONFORMS TO
THE DIN 12879.2. MANUAL RESET.

FEATURES

Temperature sensor; Pt100 thermo-resistor, stainless steel AISI 304 lid with three viscometer locations ports, three independent lids and an additional location port for the control thermometer. The main body of the bath is made of a 20 litre borosilicate glass tank. A white plate is located at the back to help optimize and read the viscometers.

CONTROL PANEL

1. Main power switch with luminous ON.
2. Temperature regulator:
3. Real time temperature display.
4. Push button increase value.
5. Push button decrease value.
6. Push button configure operation.
7. Safety thermostat safety lamp.

Precise constant temperature Kinematic Viscometer Bath

Manufactured for the calibration of viscometers, conforms to UNE 400313, ISO3105, ASTM 445 & 2515 specifications



MODEL

Part No.	Temperature control range °C	Capacity litres	Height / Ø (tank) cm	Height / Ø (total) cm	Power W	Weight Kg
3001423	amb.+5 up to 100	20	32 30	47 30	1000	8

ACCESSORIES

Universal viscometer support. made from PTFE with stainless steel AISI 304 support. Suitable for the following viscometers :



- Cannon-Fenske for transparent liquids.
- Cannon-Fenske for opaque liquids.
- Ubbelohde.
- Ostwald.
- BS U Tube.
- Cannon-Manning semi-micro.

- Ubbelohde type BS/IP/SL, BS/IP/SL(S) & type BS/IP/MSL.
- DIN Ubbelohde.

Part No. **1001453**

Calibration Chronometers (see page 288).

Thermometers for viscometer baths.

Part No.

1001454	Thermometer ASTM 120C at	38.6 to 41.4 °C	divisions of 0.05 °C.
1001455	Thermometer ASTM 121C at	98.6 to 101.4 °C	divisions of 0.05 °C.
1001456	Thermometer ASTM 91C at	20.0 to 50.0 °C	divisions of 0.1 °C.
1001457	Thermometer ASTM 92C at	40.0 to 70.0 °C	divisions of 0.1 °C.
1001458	Thermometer ASTM 93C at	60.0 to 90.0 °C	divisions of 0.1 °C.
1001459	Thermometer ASTM 94C at	80.0 to 110.0 °C	divisions of 0.1 °C.



Ultrasonic Cleaning Baths “Ultrasons”, “Ultrasons UB-1488”, “Ultrasons-H”, “Ultrasons-HD” and “Ultrasons-P”

FUNDAMENTAL THEORY

The principal of ultrasonic cleaning consists of the use of high frequency sound waves (40 kHz), produced by a generator through a transducer, which propagates them mechanically inside the tank, this produces a cavitation effect which leads to the formation of millions of low pressure microscopical bubbles which carry out molecular cleaning, eliminating impurities, polluting agents and dirt from the parts or material which must be cleaned.

Complex parts can be cleaned without disassembly since the cavitation penetrates wherever the cleaning solution is in contact with the surface.

The generator of these baths is completely transistorised and incorporated, working through the “Sweeping frequency” system, which ensures uniform cavitation at all points of the resonance tank.

COMMON FEATURES

Double bodied tank, made entirely of stainless steel.

Emptying drain, anti-parasite filter, adjustable timer and heating, model dependent.

APPLICATIONS

Laboratories in general: acceleration of chemical reactions, degassing of liquids, cell disruption, cleaning of sieves, pipettes, micro-pipettes, cuvettes, trays, viscometers, decomposition of radioactive substances, etc.

Dentistry: Cleaning of prosthesis, instruments, etc.

Optics: Cleaning of frames, lenses, and contact lenses, etc.

SUMMARY TABLE

Medicine: Cleaning of instruments in general, forceps, probes, scalpels etc.

Jewellery and Watch making: Cleaning of all kind of watches and jewels.

Industry: Cleaning of all electronic components, printed circuit boards, semiconductors, petrol injector sieves and filters, etc.



Ultrasonic bath, Automatic Lift and Dry “Ultrasons-UB-1488”

Selecta original model. Quick dry, without having to control the instrument



FEATURES

Bath with automatic basket elevator that operates at the end of the time cleaning cycle.

Hot air drying by two-turbine air fans that switch on at the start of the elevation and finalise the complete operation. Waste drain at the front of the instrument. Removable support basket.



CONTROL PANEL

1. Cleaning time control: 0-15 minutes.
2. Push button drying time: 0-15 minutes.
3. Push button increase value.
4. Push button reduce value.
5. Push button stop / start.
6. Digital timer display.

MODEL

Part No.	Capacity litres	Height / Width / Depth (usable) cm			Height / Width / Depth (exterior) cm			Generator power W	Power total W	Weight Kg
3001488	6	15	30	14	30	40	34	150	2150	12

Comes complete with basket.



Ultrasonic cleaning baths "Ultrasons" without heating



CONTROL PANEL

Timer switch for 0 - 15 minutes or continuous operation. Indicator lamp when the unit is in operation.

MODELS

Part No.	Capacity litres	Height / Width / Depth (usable) cm	Height / Width / Depth (exterior) cm	Generator power W	Timer 0-15'	Waste drain	Weight Kg
3000512 1	1	6 14 14	20 20 18	50	Yes	No	2,5
3000683 2	2,6	9 23 13	22 29 19	100	Yes	No	4
3001208 8	4	10 30 14	24 33 18	100	Yes	Yes	7
3000513 3	6	15 30 14	30 36 20	150	Yes	Yes	9,5
3000837 5	6,5	14 24 0	30 27,5 0	150	Yes	No	8
3000617 4	9	15 50 14	30 56 20	200	Yes	Yes	10,7
3000514 6	9	15 30 23	30 36 30	200	Yes	Yes	13
3000515 7	20	15 50 30	30 56 36	400	Yes	Yes	22

COMPLEMENT



Detergent "BIO-SEL"

Bio-degradable, phosphate free. Excellent cleaning power just by mixing only 20ml per litre of water. BIO-SEL, in a 2% solution has a 9.7 pH level. Low toxicity. This detergent disperses, emulsifies, segregates, dissolves, suspends and breaks down dirtiness.

1000025 Capacity 1 litre.

1000026 Capacity 4 litres.

1000852 Box of 12 x 1 litre bottles.

1000853 Box of 4 x 4 litres bottles.

ACCESSORIES

Baskets and Lids.

Made of AISI 310 stainless steel.



Lid with concentric reduction ring

Cleaner model Part No.	Part No.	BASKETS Height / Width / Depth (cm)	LID WITH CONCENTRIC REDUCTION RING Part No.	Number of positions	LID WITH HANDLE Part No.
3000512	6005123	5 11 11	6005122	1	6005121
3000683	6006833	7 20 12	6006832	1	6006831
3001208	6001209	7 26 13	-	-	6005131
3000513	6005133	12 26 13	6005132	2	6005131
3000837	6008373	13 23 0	-	-	6008371
3000617	6005144	12 46 12	6005134	3	6005124
3000514	6005143	13 29 23	6005142	2	6005141
3000515	6005153	13 49 29	6005152	6	6005151



Ultrasonic Bath "Ultrasons-Digit"

5 CYCLES ELECTRONIC DIGITAL TIME CONTROL
CAPACITY 1.4 LITRES

FEATURES

Internal tank made from stainless steel, with minimum and maximum level indicator.
External case, basket and lid made from PVC.
Maximum cleaning power, frequency 42 KHz

CONTROL PANEL

Pushbutton start/ stop
Timer 5 programs selection in seconds:
90" - 180" - 280" - 380" and 480".
Wide application range from jewellery, watches, optical components. Dentistry and general laboratory use.

MODEL

Part No.	Capacity litres	Height / Width / Depth (usable) cm	Height / Width / Depth (exterior) cm	Power W	Weight Kg
5900650	1.4	6 13 16	15 17 22	70	1.75

Comes complete with basket and see through transparent PVC lid.



Model "Elegant".





Heating cleaning bath “Ultrasons-HD”

DIGITAL ELECTRONIC REGULATION OF TEMPERATURE AND TIME
FOR TEMPERATURES FROM AMBIENT +5°C TILL 80°C

NEW

Optimum cleaning efficiency



It comes complete with a universal basket, small basket for small items, lid with handle and drain device.

FEATURES

Double body container, completely made of stainless steel and with waste drain device.

CONTROL PANEL

Illuminated main switch.

Start-stop push button.

Increase/decrease time push button in minutes (from 0' to 60').

Increase/decrease temperature push button in °C.

MODEL

Part No.	Capacity litres	Height/Width/Depth (usable) cm			Height/Width/Depth (exterior) cm			Power Generator W	Power Heater W	Weight Kg
3000865	5	15	24	14	27	31	18	120	75	3,8
3000866	6	15	30	15	27	35	18	180	75	5,8
3000867	10	15	30	24	35	38	28	240	225	8,2
3000868	22	15	50	30	27	58	35	600	375	15

It comes complete with a universal basket, small basket for small items, lid with handle and drain device.



Heated Ultrasonic baths “Ultrasons-H”

ADJUSTABLE TEMPERATURE FROM AMBIENT +5 °C HASTA 75 °C.

APPLICATIONS

For long pieces cleaning (especially for pipettes) .



Note: For cleaning long objects whose length may exceed that of the tank, such as tubes, pipettes, etc, it has been proved that they are submitted to the same cavitation effect by introducing them in a test tube filled with liquid and placed vertically in the cleaner.

FEATURES

Evenly distributed heating element, adhered to the tank for maximum heat transfer.

CONTROL PANEL

Adjustable thermostat heater.

Heater “on” indicator lamp.

Timer switch from 0-15 minutes or continuous operation.

In operation on indicator lamp.

MODEL

Part No.	Capacity litres	Height/Width/Depth (usable) cm			Height/Width/Depth (exterior) cm			Power Generator W	Power Heater W	Weight Kg
3000839	9	15	50	14	30	56	20	200	800	11

ACCESSORIES

Basket, Height 12/Width 46/Depth 12 cm. Part No 6005144

3 Lid with concentric reduction ring. Part No 6005134

Lid with handle. Part No 6005124

See page: 88



Ultrasonic pipette cleaner “Ultrasons-P”

FEATURES

Designed for automatically cleaning and rinsing pipettes, mounted inside a basket, pipettes are ultrasonically cleaned and rinsed.

Minimum rinsing time by using a water siphon action through the inside of the pipettes.

Metallic areas in contact with liquid are made of AISI 316 stainless steel.

The outer casing is made of AISI 304 stainless steel.

Cylindrical vessel in transparent acrylic, with lid to avoid splashing.

Connector(1”) water inlet and siphon-drain tube.

Basket with handle in polypropylene for the easy handling and carrying of the pipettes.

CONTROL PANEL

Timer from 0-15 minutes or continuous operation.

Indicator lamp showing when the bath is in operation.

MODEL

Part No.	Capacity litres	Ø / Height (usable) cm	Height / Width/ Depth (exterior) cm			Power W	Weight Kg
3000910	10	15 64	84	34	40	250	15



THERMOSTAT BATHS AND IMMERSION THERMOSTATS

Summary table of the different models



EQUIPMENT FOR STABLE AND PRECISE TEMPERATURE CONTROL.

QUICK OVERVIEW

Range	Model	Part No.	Control	Volume max. litres	Stability °C	Set error °C	RS-232
+5 ... 100 °C	Termotronic II	3000389	Analogue	20	±0.2	-	No
+5 ... 100 °C	Tectron Bio	3473100	Analogue	20	±0.05	-	No
+5 ... 200 °C	Tectron 200	3473200	Analogue	20	to 100 °C ±0.05	-	No
					to 200 °C ±0.1	-	No
+5 ... 100 °C	Digiterm 100	3000542	Digital μ	20	to 100 °C ±0.05	±1	Yes
+5 ... 200 °C	Digiterm 200	3000613	Digital μ	20	to 100 °C ±0.05	±1	Yes
					to 200 °C ±0.1	±2	Yes
0 ... 100 °C	Digit-Cool	3001373	Digital μ	20	to 100 °C ±0.05	±1	Yes
					to 0 °C ±0.05		
					to -10 °C ±0.1		
+5 ... 100 °C	Tectron-Bio 20	3001287	Analogue	20	±0.05	-	No
+5 ... 100 °C	Tectron-Bio 27	3001288	Analogue	27	±0.05	-	No
+5 ... 200 °C	Tectron-200 20	3001289	Analogue	20	±0.1	-	No
+5 ... 200 °C	Tectron-200 27	3001290	Analogue	27	±0.1	-	No
+5 ... 100 °C	Digiterm-100 20	3001291	Digital μ	20	±0.05	±1	Yes
+5 ... 100 °C	Digiterm-100 27	3001292	Digital μ	27	±0.05	±1	Yes
+5 ... 200 °C	Digiterm-200 20	3001293	Digital μ	20	±0.1	±2	Yes
+5 ... 200 °C	Digiterm-200 27	3001294	Digital μ	27	±0.1	±2	Yes
+5 ... 200 °C	Ultraterm-200	6000383	Digital μ	8	to 100 °C ±0.05	±1	Yes
					to 200 °C ±0.1	±2	Yes
-10 ... 100 °C	Frigiterm-10	6000382	Digital μ	8	to 100 °C ±0.05	±1	Yes
					to 0 °C ±0.05		
					to -10 °C ±0.1		
-30 ... 100 °C	Frigiterm-30	6001091	Digital μ	8	to 100 °C ±0.05	±1	Yes
					to 0 °C ±0.05		
					to -10 °C ±0.2		
0 ... ambient	Intercooler	6001421	Digital	350 l/h	-	±1	No

Refrigerated coils

-20 ... 20 °C	Frigedor	3000778	No controller	20	-	-	No
-20 ... 20 °C	Frigedor-Reg	3001214	Digital	20	±1.5	±1.5	No

THERMOSTATS DRY-BLOCKS						
Range	Model	Control	Blocks-1	Blocks-3	Blocks-4	Stability
30 ... 200 °C	Tembloc	Digital μ	7462200	-	-	±0,75 °C
30 ... 200 °C	Multiplaces	Digital μ	-	7471200	-	±0,75 °C
FIXED 37 °C	Clinic-bloc	-	7001569	-	-	±0,5 °C
FIXED 37 °C	Bio-bath	-	7001561	-	-	±0,5 °C
+5 ... 60 °C	TRM-4	Digital μ	-	-	5109200	±0,5 °C
+5 ... 100 °C	TR100-6	Digital μ	5109100	-	-	±0,5 °C

μ : with microprocessor.

+5: ambient +5 °C.

BATH TEMPERATURE LIQUIDS GUIDE.

